

We claim:

1. A layered composite material which comprises a substrate made
5 from a thermoplastic polymer, and comprises an intermediate layer arranged thereupon and a decorative layer applied to the intermediate layer, where the decorative layer is composed of a chromed metal.
- 10 2. A layered composite material as claimed in claim 1, where a heat-cured layer has also been applied to the decorative layer.
3. A layered composite material as claimed in claim 1, where the
15 substrate is composed of polypropylene.
4. A layered composite material as claimed in claim 1, where the intermediate layer is composed of a thermoplastic.
- 20 5. A layered composite material as claimed in claim 1, where the intermediate layer and the substrate are composed of the same thermoplastic.
6. A layered composite material as claimed in claim 1, the total
25 thickness of which is from 0.5 to 100 mm, at least 80% of which is made up by the substrate.
7. A process for producing a layered composite material as claimed in claim 1, which comprises providing the materials
30 for the intermediate layer, the decorative layer and, if used, the heat-cured layer, each in the form of thin sheets, and then bonding these at from 150 to 300°C with the material for the substrate.
- 35 8. A process as claimed in claim 7, wherein the decorative layer is shaped in three dimensions after heat-treatment at from 150 to 300°C.
9. A process as claimed in claim 7, where the bonding to the
40 intermediate layer, to the decorative layer and to the heat-cured layer, if used, and to the substrate takes place by injection molding.
10. A process as claimed in claim 7, wherein the bonding to the
45 intermediate layer, to the decorative layer and to the heat-cured layer, if used, and to the substrate takes place

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by extrusion.

11. A process as claimed in claim 7, wherein the bonding to the intermediate layer, to the decorative layer and to the heat-cured layer, if used, and to the substrate takes place by hot-press molding.
12. A method of using the layered composite material as claimed in claim 1 as a reflecting part of a household device, of a piece of furniture or of a molding in the electrical, construction or automotive industry or in the health sector.
13. A method of using the layered composite material as claimed in claim 1 as an insulating part of a household device, of a piece of furniture or of a molding in the electrical, construction or automotive industry or in the health sector.